

Restate/Summarize the question: Someone asked you to supply milk for a feast in our class. When you go to the store to buy the milk, you find out you have a lot of choices! Milk comes in a variety of sizes that include: pints, quarts, half-gallons and gallons! You have to buy 16 servings, and ideally each person will get a 6 ounce serving. You also realize you shouldn't waste money on food, so you only buy what you need. What should you buy and why? Show all work!

First I, found out how many ounces are in a pint, quart, half gallon and gallon.

size	ounces
Pint	16 oz.
quart	32 oz.
Half gallon	64 oz.
Gallon	124 oz.

Second, I found out exactly how much milk I would need and all the possibilities to get the correct amount of milk for the least amount of money.

16 servings of milk X 6 ounces = 96 ounces of milk in total

Possibilities:

#1 1 half gallon and 1 quart = 96 ounces of milk

Cost $\$1.59 + \$1.19 = \$2.78$

#2 6 pints = 96 ounces of milk

Cost $\$0.65 \times 6 = \3.90

#3 2 pints + 2 Quarts = 96 ounces of milk

Cost $\$0.65 + \$0.65 + \$1.19 + \$1.19 = \$3.68$

#4 2 pints + 1 Half gallon = 96 ounces of milk

Cost $\$0.65 + \$0.65 + \$1.59 = \2.89

Third, I chose the best answer. Possibility #1 was the best answer based on only buying as much milk as needed.

What was your result/answer. My answer is to buy one half gallon and one quart of milk to get a total of 96 oz. and spend a total of \$2.78.

Conclusion/How did you get your answer? I got my answer by finding out 96 oz was how much milk was needed for the class and how to supply it with the smallest price. I went with a half gallon and a quart at a cost of \$2.78 even though it would be more reasonable to buy a gallon of milk at \$2.39 and save almost 40 cents. This way there would be extra milk incase of spills.